### **Miami Dade Transportation Summit**

Private Sector Participation in Project Delivery











### Public-Private Partnerships in Project Delivery: A Programmatic Approach

#### **Michael Schneider**

Chair, Committee on Public-Private Partnerships American Public Transportation Association

Senior Vice President, HDR / InfraConsult





#### What's the Situation?



- Ongoing debate on infrastructure funding, priorities, and appropriate roles of the federal, state, and local governments... and the private sector
- Continued fiscal crises affecting projected revenues, access to credit, and our ability to deliver needed infrastructure
- Not since 1956 and 1964 has there been a discussion of such fundamental nature in the way we do the business of moving people and goods in America



#### Innovative Project Delivery





"A partnership between governmental agencies and private entities for the primary purpose of effectively developing, operating and/or maintaining public infrastructure traditionally in the domain of the governmental sector"







- The public sector is inefficient and incapable
- The private sector is altruistic and charitable
- Public works should be profit-making in all cases
- Private investors are risk-averse
- P3s work in Europe and Asia because the private sector is willing to take greater risks
- P3s allow <u>public</u> officials to avoid funding <u>public</u> infrastructure with <u>public</u> funds
- Funding and financing are the same thing



#### Some Believe That...





- When there are no federal grants...
- When there is no state money...
- When no local sources of funds are available...
- ... then (and <u>only</u> then) is a project a candidate for private sector involvement

## LEVERAGING PUBLIC ASSETS IS THE KEY TO P3 SUCCESS



#### Four Key Elements of P3s



- P3s are about project life-cycle.
   Successful P3s integrate project design, construction, operations and maintenance.
- P3s are about skin in the game, which doesn't always mean money.
- P3s are about financing projects, not necessarily funding them.
- P3s are about leveraging assets over time.



#### **Risk and Reward**







I WANT TO EXPERIENCE
LIFE ON THE EDGE, FULL
OF RISK AND CHALLENGE
AND ADVENTURE!

THE COMPANY STOPS
PAYING YOU IF YOU
QUIT.

OH, THEN
NEVER MIND.

#### What's Happening Elsewhere?





# Los Angeles County Population: 10.3 Million Area: 4,084 Square Miles

- 88 cities: 5.1 million people
- LA City: 4.1 million people
- Unincorporated areas:1.1 million people
- Economy: Larger than 42 states





#### **Transportation Challenge**





- Adding 2 million more people to the LA urban landscape over 20 years
- Building "further out" increases trip length, travel time, and traffic impact on communities





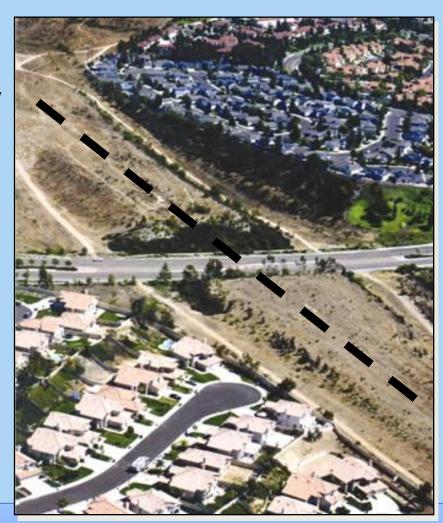
#### **Southern California**





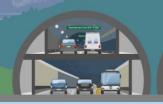
#### First Private Toll Road SR 125 – South Bay Expressway

- Concession signed between State and CTV Inc. in 1991
- Construction began in October 2002
- Facility opened in December 2007
- State of California gets needed highway at no cost to public





### **Grand Opening**





#### **South Bay Expressway – SR 125**





# Los Angeles County Metropolitan Transportation Authority





#### **LACMTA**



Regional transportation planner



Regional builder



Regional transit operator

.... for all of Los Angeles County



#### 73 Miles of Urban Rail 63 Rail Stations

















#### 447 Miles of HOV/Express Lanes



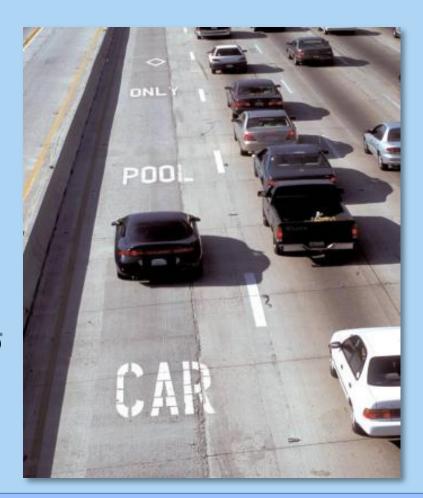








**Metro**<sup>®</sup>



HDR InfraConsult

# LACMTA Public-Private Partnership Program

- Multimodal and multipurpose
  - Rail and highway projects
  - Greenfield and brownfield projects
  - Passenger and freight projects
- Leverage Measure "R" funds
  - <u>\$35-\$40 billion</u> in local sales tax revenues
  - Approved by 68% of voters in LA County in November 2008
- More than \$20 billion in potential P3 procurements





#### Public-Private Partnerships...



- How can private capital including pension funds be utilized to build, operate and maintain regional transportation projects in an optimal manner?
- How can public funds be leveraged in creative ways to make best use of private capital?



...accelerating project delivery



#### P3 Structures Considered





- Design-Build (DB)
  - May include financing component (DBF)
- Design-Build-Maintain (DBM)
  - May include financing component (DBFM)
- Design-Build-Operate-Maintain (DBOM)
  - May include partial financing component (DBFOM)
- Project Concession (DBFOM)
  - > Includes financing component
  - > Generally includes full or partial revenue risk



#### Metro P3 Program Objectives



- Leverage Measure "R" and other local funding
- Accelerate project development and delivery
- Attract strategic investment and private finance
- Reduce current and future project costs
  - Reduce capital construction costs
  - Transfer life-cycle risk for maintenance and operations from public to private sector
- Deliver \$20+ billion in potential P3 procurements over next decade



#### Focus on Project Life-Cycle





- Achieve accelerated project delivery
  - Project activities in "parallel"
- Insure project quality throughout life cycle
  - Private financial participation ("skin in the game")
- Reduce agency risk
  - Eliminate/lessen risk of project cost overruns/change orders
  - Reduce public sector risks by strengthening project interfaces
- Complement federal funding

#### Achieve cost savings

- Operations performance-related concessions and system availabilitybased contracting
- Capital design and construction efficiencies
- Enhance cash flows
  - Private financing mechanisms
  - Leverage Measure R revenues and other public funding sources
- Utilize new funding sources



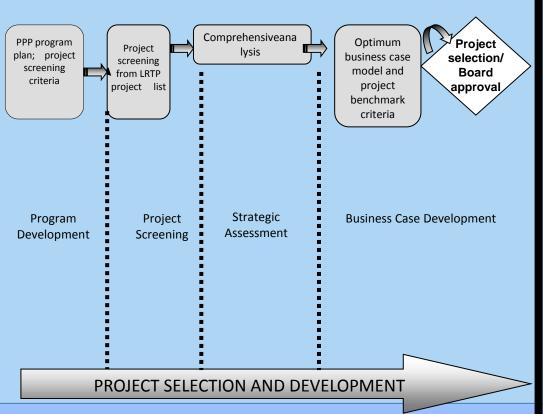
#### **Project Development Process**

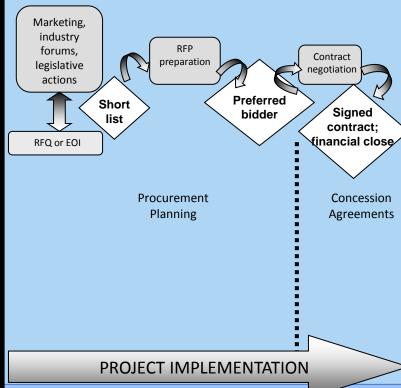




An Imbedded and Programmatic Process for Selection and Implementation of Projects Utilizing a Variety of P3 Models

HDR InfraConsult





#### Metro P3 Advisory Team





#### HDR/InfraConsult - P3 Program Manager



#### **Primary Specialty Consultants**

KPMG LLP
 Financial Advisory



 Nossaman LLP Legal Advisory



 Sharon Greene + Associates LLC Strategy and Funding Advisory



HDR Inc.
 Technical Advisory

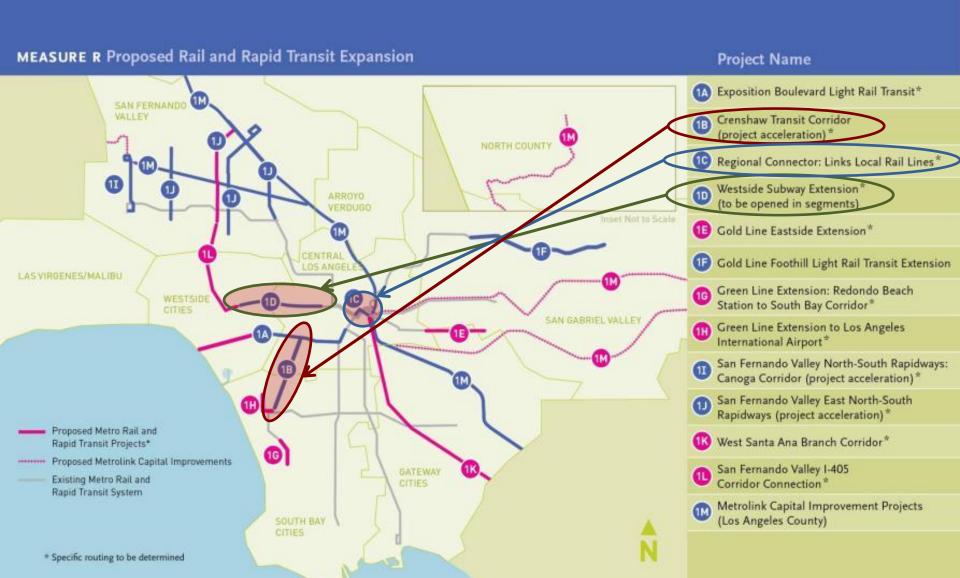


#### HDR InfraConsult

# Initial Transit Projects Recommended for P3 Delivery







#### **Transit Projects**





- All three prospective projects are extensions of, or "interline" with, existing and currently operating rail lines
- The rail projects have significant Measure R funding and Westside Subway Extension and Regional Connector have federal "New Starts" grant support
- Crenshaw/LAX has a \$540 million TIFIA award which is being managed through internal budgetary programs

#### Rail Project P3 Recommendations

- The rail projects are recommended for design-build for all or parts of the respective capital construction programs
- Legacy operation and maintenance of the rail lines will continue under Metro operating auspices
- New transit lines with "independent utility" will likely be considered for DBFM or DBFOM delivery



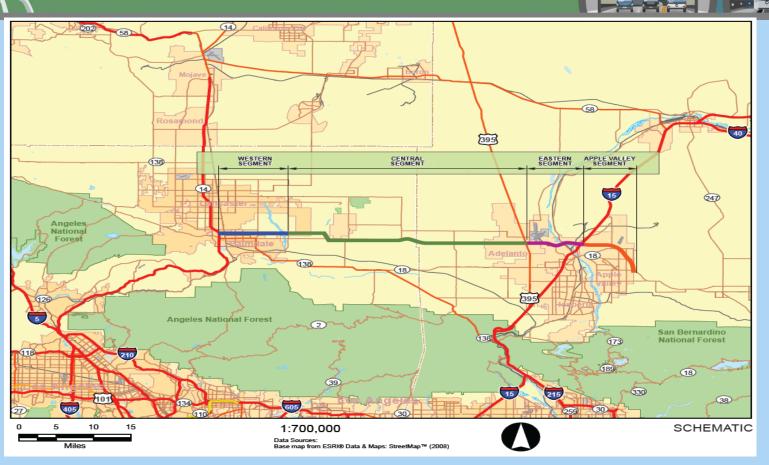
# Initial Highway Projects Recommended for P3 Delivery







#### High Desert Corridor / Xpress West



- 63-mile east west corridor from SR-14 to I-15)
- Estimated cost \$2.7 billion

**I-710 South Freight Corridor** 

- Improvement of 18+ miles of freeway:
  - Four-lane exclusive tolled truck corridor, procured initially as a publicprivate partnership (availability payment model)
  - Freeway widening to 10 lanes
  - Improvement of most existing interchanges
- Estimated Cost:
  - Truck Tollway \$4.5+ billion
  - Total Project \$8.0+ billion



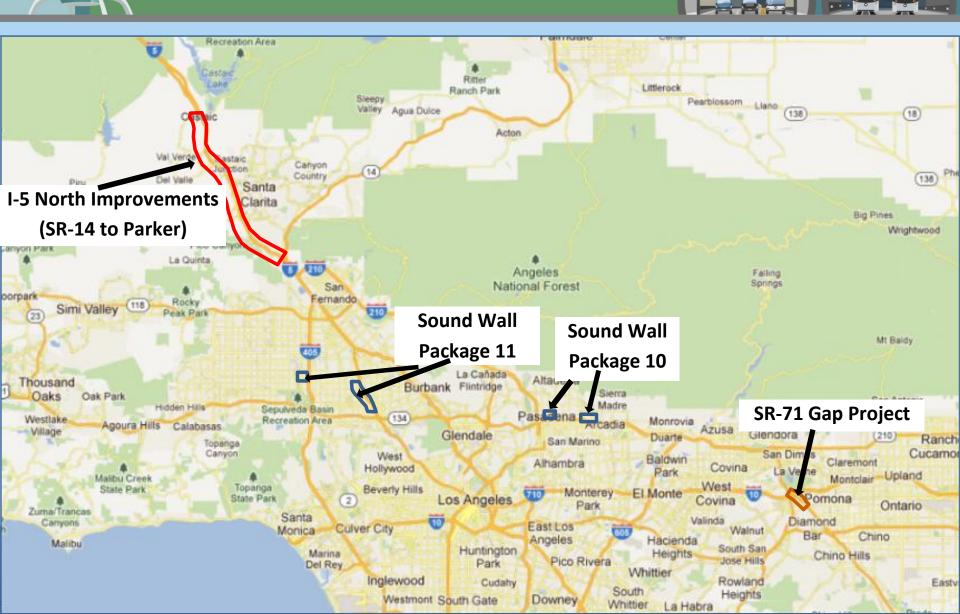
#### SR 710 North Gap Closure



- Extension of existing Long
   Beach Freeway to I-210
- Proposed tunnel for significant portion of alignment
- Estimated Cost: \$4+ billion
- May be procured as a toll concession with full or partial revenue risk transfer to concessionaire



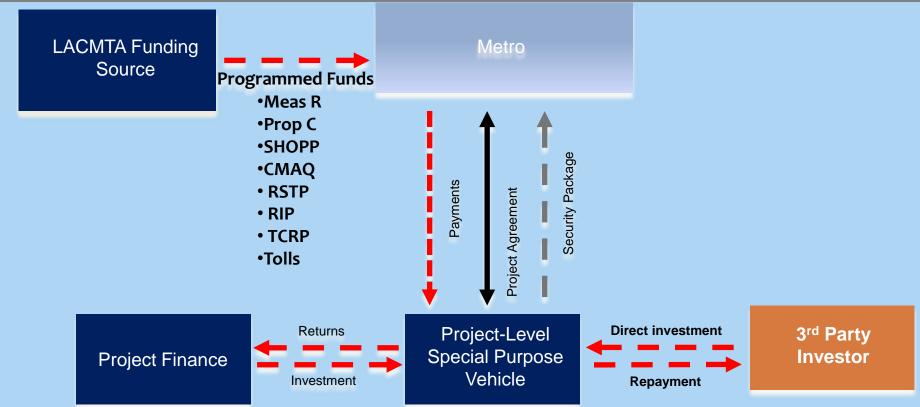
# Accelerated Regional Transportation Improvement Project (ARTI)



#### **Potential Investment Structure**







Legal Relationship

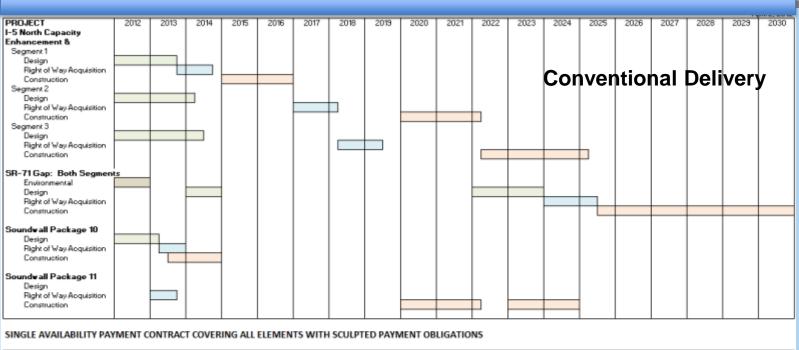


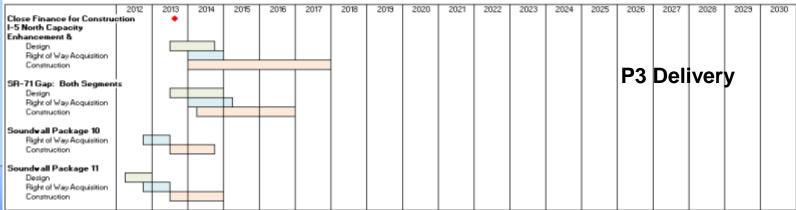
**Accelerated Regional Transportation Improvement Project** 





### ARTI: Conventional and P3 Delivery





#### Sepulveda Pass Transportation Corridor



#### Premier Public-Private Partnership Project



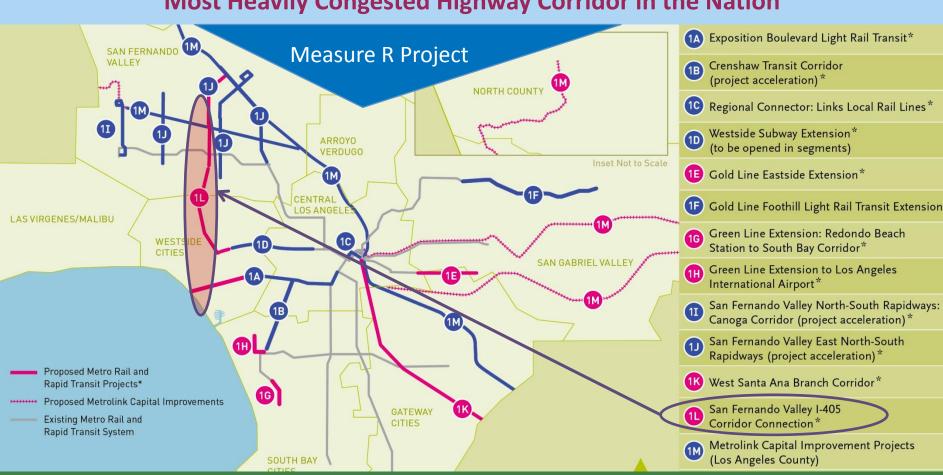


#### Sepulveda Pass / I-405





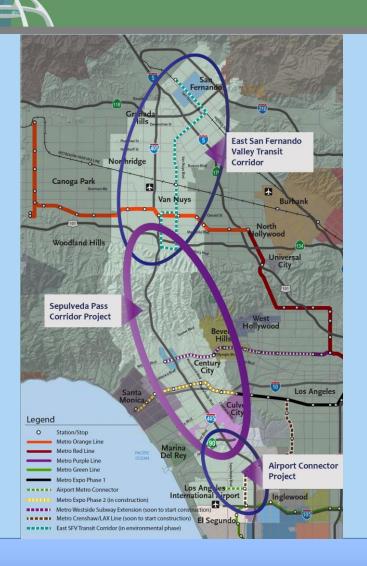
### Recently Named by US Department of Transportation as the Most Heavily Congested Highway Corridor in the Nation



Transit Projects Included in Measure R
Approximately \$1 Billion Allocated in Third Decade for I-405 "Connection"

#### Sepulveda Pass Corridor





#### Extends for 30 miles

- San Fernando Valley 11 miles
- Sepulveda Pass 9 miles
- Westside to LAX 10 miles

#### **Potential Transit Connections:**

- Metrolink Antelope Valley Line
- Metrolink Ventura Line
- East San Fernando Valley Transit Corridor
- Metro Orange Line
- Westside Subway Extension
- Expo Line Phase 2
- Crenshaw/LAX LRT Project
- Airport Metro Connector
- Metro Green Line

#### **Potential Highway Connections**

- SR 118
- US 101
- I-10
- SR 90
- I-105



#### **Indicative P3 Concept**



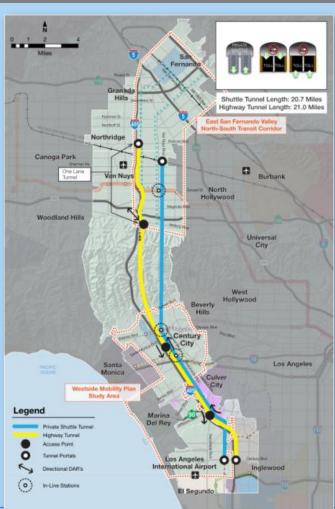


#### **Tolled Highway Bypass**

- Initial Northern Portal: Van Nuys Airport
- Initial Southern Portal: Westside
- Minimum five lanes
- Potential extension to LAX and South Bay
- Potential extension north to Santa Clarita and Antelope Valley

#### **Premium Transit System**

- Initial Northern Portal: North Valley Metrolink
- Initial Intermediate Stations: Orange Line, Purple Line, EXPO Line, Metrolink Lines
- Automated, driverless transit technology
- Potential extension/connection south to Green Line/LAX
- Potential extension/connection north to Palmdale



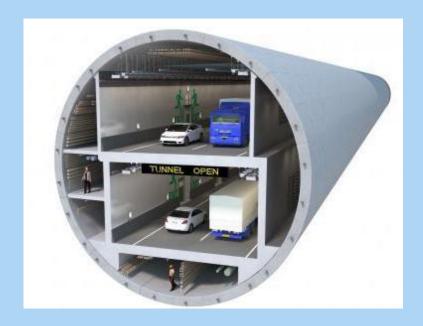


# **Toll Highway & Rail Transit**





#### P3 Concept for Sepulveda Pass Corridor



Underground Tollway and High Capacity Rail System





## P3 Concept Highlights











- Demand for travel in the Sepulveda Pass Corridor is huge – and this demand will remain significantly unmet under all current funding/financing options.
- Public funding is simply insufficient to build and operate a project that meets travel demands in the corridor
- A significant opportunity exists to generate user-based revenue under a P3 concept that includes a tolled bypass highway and a premium-fare automated rail system,



# P3 Concept Overview





- The cost of the project could range between \$8 and \$20 billion, depending upon project limits and locations of transit stations and highway connections.
- Demographics and travel demand point to travelers willing and able to pay substantial tolls and/or premium transit fares.
- Early traffic and revenue forecasts show potential annual revenue from tolls and transit fares at \$500-\$800 million annually, with about 65%+ coming from tolls.
- This revenue could be leveraged to build and operate the project as a P3



# Pre-Development Agreement Concept

- A Pre-Development Agreement ("PDA") is awarded to a contractor through a competitive process, with the contract and subsequent concession agreement covering two distinct phases:
  - An initial phase, which includes confirmation of project feasibility, development of engineering and operational concepts, and definition of project finance plan
  - A second phase, which includes project implementation through execution of a long-term concession agreement, covering the contractor's rights and obligations for project financing, design, construction, operation and maintenance





- Concessionaire roles
  - Assist in project scope definition
  - Participate in project planning and design
  - Perform technical studies to support environmental clearance
  - > Perform permitting and regulatory processes
  - Optimize risk allocation



## **Pre-Development Agreement**





- Mechanisms pre-established by Metro to assure competitive market-based pricing by PDA concessionaire in order to move from Phase 1 to Phase 2
- The PDA concessionaire would maintain the first right of negotiation with MTA for the Concession Agreement, which would include
  - Design
  - Construction
  - > Finance
  - Operations
  - Maintenance



## Why Use a PDA Approach?





- Obtain maximum private sector innovation
- Bring contractor aboard early to assure environmental clearance for specific design and construction approach
- Reduce overall schedule and streamline environmental clearance process
- Incorporate nominal contractor/concessionaire roles during project development
  - Assist in project scope definition
  - Participate in project planning and design
  - > Perform technical studies to support environmental clearance
  - > Perform permitting and regulatory processes
  - Optimize risk mitigation plan



# Sepulveda Pass RFI









#### Request for Information

Regarding Potential Project Delivery and Finance Structure for the Sepulveda Pass Corridor Program

Responses Due 5:00 PM PDT May 20, 2013













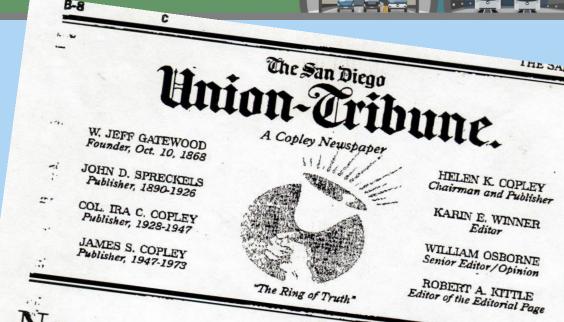


# Widespread Support: Project and Method of Delivery





Significant **Political Support From Local Jurisdictions** 



# No more delays

# Attempt to obstruct tollway won't work

he last-minute attempt by an Environmental Protection Agency official to obstruct San Diego's proposed South Bay tollway is really off-base, considering that the EPA has been involved in the environmental review process for this project for

Fortunately, this action by Felicia Marcus, EPA's regional administrator, based in San Francisco, isn't likely to delay this important project in the booming Otay Ranch area. Both state and federal transportation officials deny claims Sidetrack the re-

1997 and when the supplemental review was released last year.

Her claims that the final environmental review fails to address adequately the negative impacts on rivers, wetlands and air quality are exactly the same claims that have been made for years by Preserve South Bay, the group leading the fight against the road. Transportation officials say these concerns have been ade-

Anti-tollway activists for this will irrevocable ob-

# Attributes of Successful P3 Projects

 What project attributes are required to facilitate private sector involvement in project delivery?

- > Stability
- Predictability
- Continuity
- Acceptability









The ability to trust that multi-year funding commitments pledged for repayment of financing instruments will be met with minimal revenue risk.



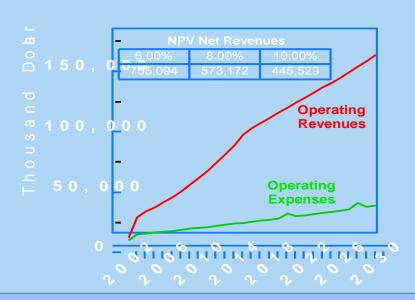


## **Predictability**



The ability to predict accurately what a project will cost to design, build, operate, and maintain, and when it will be open for business.











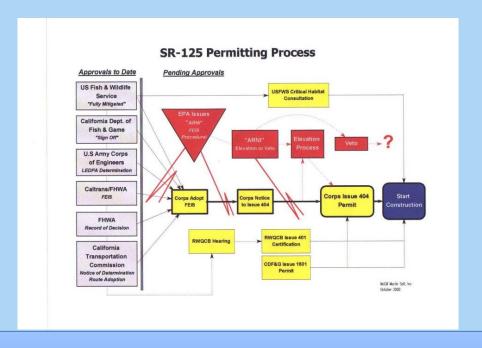
- The ability to trust that the political resolve to get a project done will continue through changes in elected and appointed leadership
- The ability to know that agency decisions made will be maintained over the life of the project development process.



### **Acceptability**

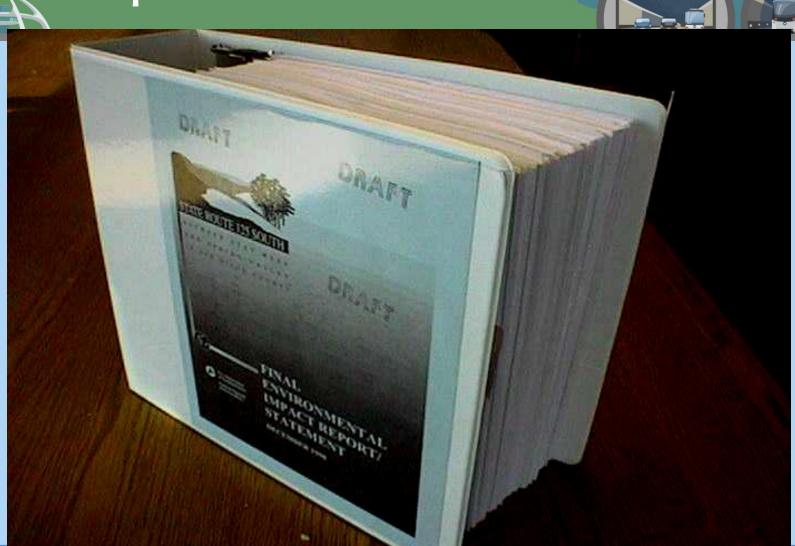


The ability to streamline the process for achieving informed acceptance of project characteristics among public agencies and stakeholders.





# "Bulletproof" EIS







Public-private partnerships must supplement – not substitute – for funding provided through permanent sources of transportation revenue.





# Without significant public resources dedicated to transportation, there cannot be public-private partnerships in transportation.

HDR InfraConsult

# Surface Transportation Reauthorization



- Policies that facilitate private investment in public works
- Policies that streamline the project development and approval process – highways as well as public transport
- Policies that lessen political risk
- Policies that emphasize financing as well as grant funding
- Policies that encourage expedited project delivery



The Physical Cliff...

Can we simply continue to kick the can down the road?



